

**ILLUMINATING REFLECTOR WITH  
LOW-GAIN PROPAGATOR**

**ABSTRACT OF THE DISCLOSURE**

An illuminating-reflector system is provided for transmitting a frequency band in an dispersed beam and a substantially collimated beam. The system includes a secondary reflector configured to transmit a first portion of the frequency band to form the dispersed beam and to reflect a second portion of the frequency band; and a primary reflector configured to receive the second portion of the frequency band reflected from the secondary reflector and to reflect the second portion of the frequency band to form the substantially collimated beam.

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